

PATENT CLAIMS

1. Device of a descaler head with circumferentially following and longitudinally following rows of descaler parts (22,24,26) where the descaler head comprises:

5 a shaft (12) onto which a number of holding elements for the descaler parts (22,24,26) are fed, said holding bodies are held together in the axial direction with the help of adjustable gripping appliances on the carrier shaft, and each descaler part is connected to associated holding bodies via connecting means which each is in the form of a relatively short length of chain, piece of wire or similar flexible connecting means, at a distance from the axis of rotation of the descaler head,  
10 characterised in that each holding body is formed by two mutually separated plate-formed elements (30,32), with the descaler elements (22,24,26) being held in between the plate elements of the holding body with mutual distance along their periphery, with each holding body (30,32) being formed with means to prevent mutual twisting in relation to the adjoining holding bodies.

2. Device according to claim 1,  
20 characterised in that the means comprises that each plate element is deformed so that the row of descaler parts along the periphery makes an arch shape /spiral shape, or is placed inclined in relation to the peripheral rotation of the head.

25 3. Device according to claims 1-2,  
characterised in that each disc plate is deformed by an incision or groove (16,18) being cut into each disc plate (30,32), from diametrically opposite sides of the disc periphery at a given distance in towards the rotational centre (14) to form two disc halves (30A,30B;32A,32B) separated by the mentioned groove,  
30 with the two disc halves (30A,30B;32A,32B) being twisted in mutually opposite directions about an axis (19) through the centre (14) of the disc, said axis (19) runs across the mentioned straight line through the grooves (16,18) to form a screw-formed peripheral course.

35 4. Device according to claims 1-3,  
characterised in that each radial groove length (16,18) constitutes about half of the disc plate radius.

5. Device according to claims 1-4,  
characterised in that the radial grooves in each disc plate (30,32) in a holding pair are mutually level in the axial direction
- 5 6. Device according to one of the preceding claims,  
characterised in that the innermost chain link (34) of each descender part is exchangeable fitted to the holding body (30,32).
- 10 7. Device of holding elements for descender part (22,24,26) of a descender head, characterised by two mutually separated plate-formed elements (30,32), where the descender elements (22,24,26) are arranged held in between the plate elements of the holding body with mutual distance along their periphery, with each holding body (30,32) being shaped with means to prevent mutual twisting of a holding body in relation to the adjoining holding bodies.
- 15 8. Device according to claim 7,  
characterised in that the means comprises that each plate element is deformed so that the row of descender parts along the periphery form an arch shape/spiral shape, or is arranged inclined, in relation to the peripheral rotation of the head.
- 20 9. Device according to claims 7-8,  
characterised in that each disc plate is deformed by an incision or a groove (16,18) being cut into each disc plate(30,32) from diametrically opposite sides of the periphery of the disc a given distance in towards the centre (14) of rotation to form two disc halves (30A,30B;32A,32B) separated by the mentioned
- 25 grooves, with the two disc halves (30A,30B;32A,32B) being twisted in mutually opposite directions about an axis (19) through the centre (14) of the disc, said axis (19) runs across the mentioned straight line, to form an approximately screw-formed peripheral course.
- 30 10. Device according to claims 7-9,  
characterised in that each radial groove length (16,18) constitutes about half the radius of the disc plate.
- 35 11. Device according to claims 7-10,  
characterised in that the radial grooves in each disc plate(30,32) in a holding pair are mutually level in the axial direction

12. Device according to one of the preceding claims 7-11, characterised in that the innermost chain link (24) of each descender part is exchangeable fitted to the holding body (30,32).